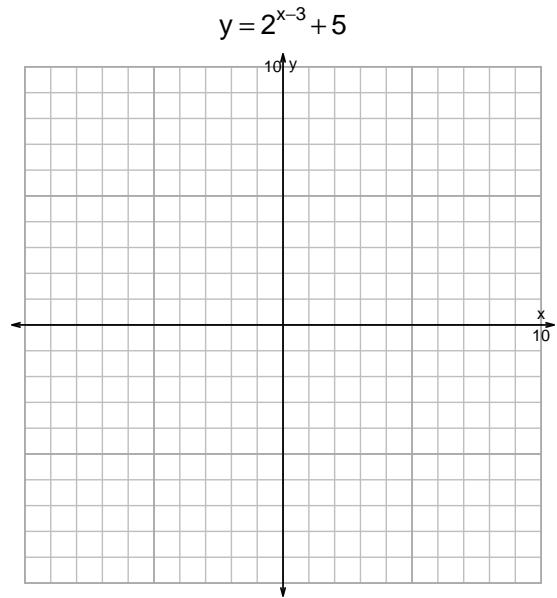
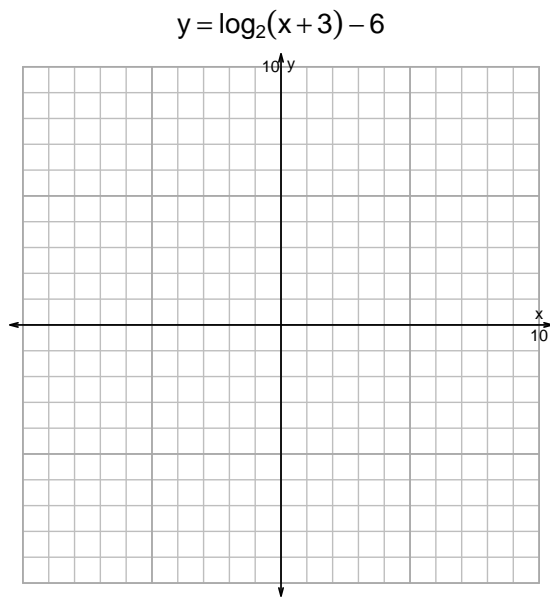


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v220)

1. Graph $y = \log_2(x + 3) - 6$ and $y = 2^{x-3} + 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$29 = \left(\frac{7}{4}\right) \cdot 10^{-5t/3}$$

3. An exponential function $f(x) = 0.637 \cdot e^{-1.5x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(0.5)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(0.02)$.